Date: Tue, 6 Sep 94 04:30:06 PDT

From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>

Errors-To: Info-Hams-Errors@UCSD.Edu

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Precedence: Bulk

Subject: Info-Hams Digest V94 #998

To: Info-Hams

Info-Hams Digest Tue, 6 Sep 94 Volume 94 : Issue 998

Today's Topics:

Daily Summary of Solar Geophysical Activity for 05 September
Extra Features of the Kenwood TH-78A

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu> Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu> Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available (by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text herein consists of personal comments and does not represent the official policies or positions of any party. Your mileage may vary. So there.

Date: Mon, 5 Sep 1994 21:27:17 MDT

From: ihnp4.ucsd.edu!swrinde!gatech!newsxfer.itd.umich.edu!nntp.cs.ubc.ca!alberta!

ve6mgs!usenet@network.ucsd.edu

Subject: Daily Summary of Solar Geophysical Activity for 05 September

To: info-hams@ucsd.edu

DAILY SUMMARY OF SOLAR GEOPHYSICAL ACTIVITY

05 SEPTEMBER, 1994

(Based In-Part On SESC Observational Data)

SOLAR AND GEOPHYSICAL ACTIVITY INDICES FOR 05 SEPTEMBER, 1994

!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 248, 09/05/94

10.7 FLUX=094 90-AVG=079 SSN=092 BKI=0233 3220 BAI=008 FLU1=4.3E+05 FLU10=1.3E+04 PKI=2233 2222 PAI=008 BGND-XRAY=A9.3 BOU-DEV=004,014,030,024,021,013,011,002 DEV-AVG=014 NT SWF=00:000 XRAY-MAX= C6.0 @ 0539UT NEUTN-MAX= +002% @ 0040UT NEUTN-MIN= -003% @ 1505UT NEUTN-AVG= -0.4% PCA-MAX= +0.1DB @ 1425UT PCA-MIN= -0.3DB @ 1645UT PCA-AVG= -0.0DB BOUTF-MAX=55220NT @ 2239UT BOUTF-MIN=55179NT @ 1739UT BOUTF-AVG=55207NT GOES7-MAX=P:+000NT@ 0000UT GOES7-MIN=N:+000NT@ 0000UT G7-AVG=+076,+000,+000 GOES6-MAX=P:+142NT@ 0005UT GOES6-MIN=N:-015NT@ 2233UT G6-AVG=+099,+028,-003 FLUXFCST=STD:092,090,088;SESC:092,090,088 BAI/PAI-FCST=015,020,020/015,018,022 KFCST=2135 5111 2135 5333 27DAY-AP=005,016 27DAY-KP=1210 1223 3232 4443 WARNINGS=*SWF

ALERTS=**245STRM:0215-0927UTC

!!END-DATA!!

NOTE: The Effective Sunspot Number for 04 SEP 94 was 28.6.

The Full Kp Indices for 04 SEP 94 are not available.

The 3-Hr Ap Indices for 04 SEP 94 are not available.

Greater than 2 MeV Electron Fluence for 05 SEP is: 2.5E+06

SYNOPSIS OF ACTIVITY

Solar activity was low. Region 7773 (S09W05) produced the largest flare, a C6/1F at 05/0538Z. This region has reduced spot area but increased magnetic complexity since yesterday. Region 7776 (S08E23) has been relatively quiet. New Region 7777 (S14W22) was numbered.

Solar activity forecast: solar activity is expected to be low. There is still a chance of an isolated M-class flare in Region 7773 or 7776.

STD: A 245 MHz radio noise storm was observed from 02:15 UTC to about 09:27 UTC. Another full-disk Yohkoh x-ray image has been appended to this report showing the location of the coronal hole and the relatively strong emissions from Regions 7773 and 7776.

The geomagnetic field was quiet to unsettled at most locations. Active to minor storm periods were observed at some high latitude stations.

Geophysical activity forecast: the geomagnetic field is expected to be active within the next 48 hours in response to a coronal hole.

Event probabilities 06 sep-08 sep

Class M 20/20/20 Class X 01/01/01 Proton 01/01/01 PCAF Green

Geomagnetic activity probabilities 06 sep-08 sep

A. Middle Latitudes

Active 20/30/30
Minor Storm 10/20/20
Major-Severe Storm 05/10/10

B. High Latitudes

Active 20/30/30
Minor Storm 15/20/20
Major-Severe Storm 05/10/10

HF propagation conditions were normal over all regions. Minor signal degradation is expected to begin perturbing high-latitude paths (particularly transauroral circuits) over the next 2 to 3 days. Conditions may also gradually deteriorate for middle latitude paths, although in general only minor signal degradation is expected.

COPIES OF JOINT USAF/NOAA SESC SOLAR GEOPHYSICAL REPORTS

REGIONS WITH SUNSPOTS. LOCATIONS VALID AT 05/2400Z SEPTEMBER

NMBR LOCATION LO AREA Z LL NN MAG TYPE

7771 N06W30 122 0060 HSX 02 001 ALPHA

7773 S09W05 097 0440 EKI 14 026 BETA-GAMMA

7774 N10E04 088 0030 DRO 07 008 BETA

7776 S08E23 069 0220 CS0 07 003 BETA

7777 S14W22 114 0010 BX0 03 004 BETA

7775 N16E35 057 PLAGE

REGIONS DUE TO RETURN 06 SEPTEMBER TO 08 SEPTEMBER

NMBR LAT LO

7764 S06 358

LISTING OF SOLAR ENERGETIC EVENTS FOR 05 SEPTEMBER, 1994

BEGIN MAX END RGN LOC XRAY OP 245MHZ 10CM SWEEP 0703 0703 0703 150

0924 0927 0927 2040 2040 2041 210 100

POSSIBLE CORONAL MASS EJECTION EVENTS FOR 05 SEPTEMBER, 1994

BEGIN MAX END LOCATION TYPE SIZE DUR II IV
NO EVENTS OBSERVED

INFERRED CORONAL HOLES. LOCATIONS VALID AT 05/2400Z

ISOLATED HOLES AND POLAR EXTENSIONS

EAST SOUTH WEST NORTH CAR TYPE POL AREA OBSN 02 N42E12 N13W27 N28W52 N50E11 105 ISO POS 033 10830A

SUMMARY OF FLARE EVENTS FOR THE PREVIOUS UTC DAY

Date	Begin	Max	End	Xray	0р	Region	Locn	2695	MHz	8800	MHz	15.4	GHz
04 Sep:	0117	0117	0120		SF	7773	S09E17						
	0248	0251	0253	B4.5									
	0442	0447	0457	B2.9									
	0558	0605	0616	B6.3	SF	7776	S08E71						
	0917	0922	0925	B2.6									
	1358	1402	1407	B1.8	SF	7776	S07E65						
	2059	2103	2106	B1.4									

REGION FLARE STATISTICS FOR THE PREVIOUS UTC DAY

	С	М	Χ	S	1	2	3	4	Total	(%)	
Region 7773:	0	0	0	1	0	0	0	0	001	(14.3)	
Region 7776:	0	0	0	2	0	0	0	0	002	(28.6)	
Uncorrellated:	0	0	0	0	0	0	0	0	004	(57.1)	

Total Events: 007 optical and x-ray.

EVENTS WITH SWEEPS AND/OR OPTICAL PHENOMENA FOR THE LAST UTC DAY

Date Begin Max End Xray Op Region Locn Sweeps/Optical Observations

04 Sep: 0558 0605 0616 B6.3 SF 7776 S08E71 III 2059 2103 2106 B1.4 III

NOTES:

All times are in Universal Time (UT). Characters preceding begin, max, and end times are defined as: B = Before, U = Uncertain, A = After. All times associated with x-ray flares (ex. flares which produce associated x-ray bursts) refer to the begin, max, and end times of the x-rays. Flares which are not associated with x-ray signatures use the optical observations to determine the begin, max, and end times.

Acronyms used to identify sweeps and optical phenomena include:

II= Type II Sweep Frequency Event

III = Type III Sweep IV = Type IV Sweep = Type V Sweep

Continuum = Continuum Radio Event Loop = Loop Prominence System,

Spray = Limb Spray,

Surge = Bright Limb Surge, EPL = Eruptive Prominence EPL = Eruptive Prominence on the Limb.

SPECIAL INSERT: YOHKOH FULL-DISK X-RAY IMAGE

05 September 1994, 05:10 UTC

North

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South
KEY: East and west limbs are to the left and right respectively. Emission strength, from minimum to maximum are coded in the following way:
[space] . , : ; - + ! 1 2 3 4 * # @
Units used are arbitrary, for illustrative purposes. Get "showasc.zip" from "pub/solar/Software" at the anonymous FTP site: ftp.uleth.ca (IP # 142.66.3.29) to view these images on VGA screens. Remove all but the image data before typing "showasc filename".
** End of Daily Report **
Date: Wed, 31 Aug 1994 20:29:00 GMT From: ihnp4.ucsd.edu!usc!math.ohio-state.edu!howland.reston.ans.net!swiss.ans.net! gatech!newsfeed.pitt.edu!dsinc!ub!acsu.buffalo.edu!ubvms.cc.buffalo.edu! vp253dhq@network.ucsd.edu Subject: Extra Features of the Kenwood TH-78A To: info-hams@ucsd.edu
End of Info-Hams Digest V94 #998